

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1449898

Luminaire Tested: **TWC60_T2_60W_5000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC60_T2_60W_5000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 60W
5000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9447 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.42' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

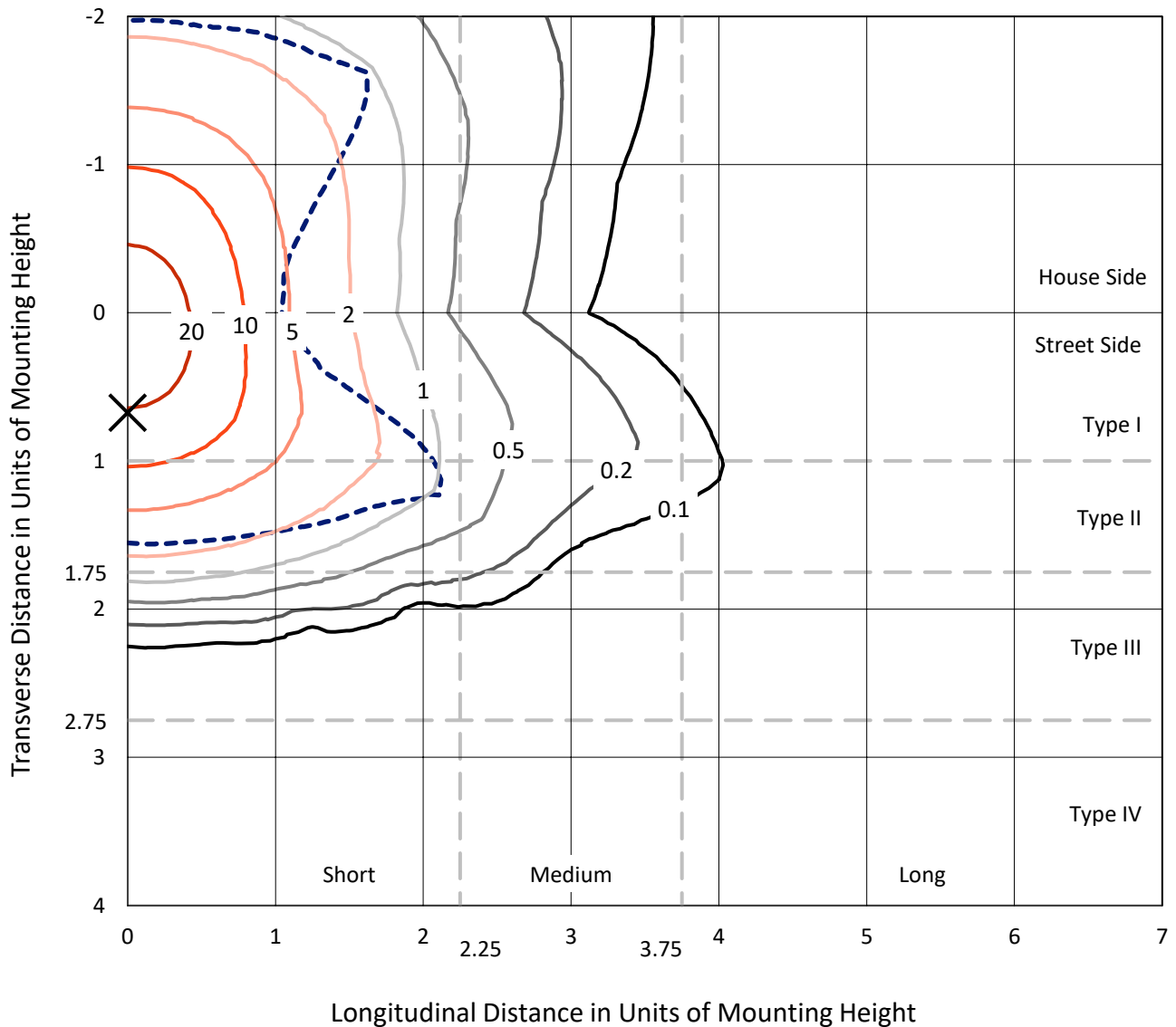
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

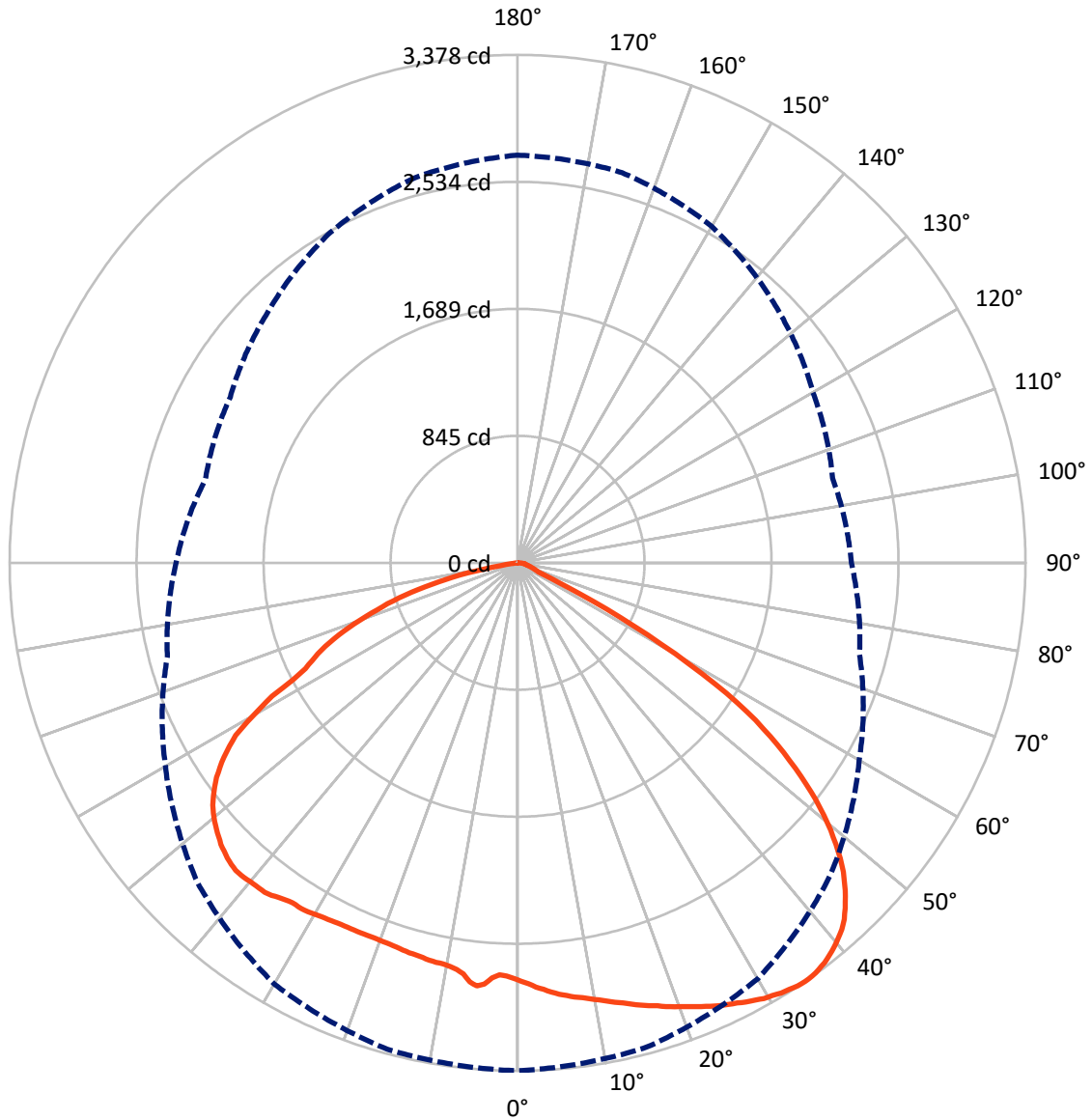
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 34-Deg Vertical

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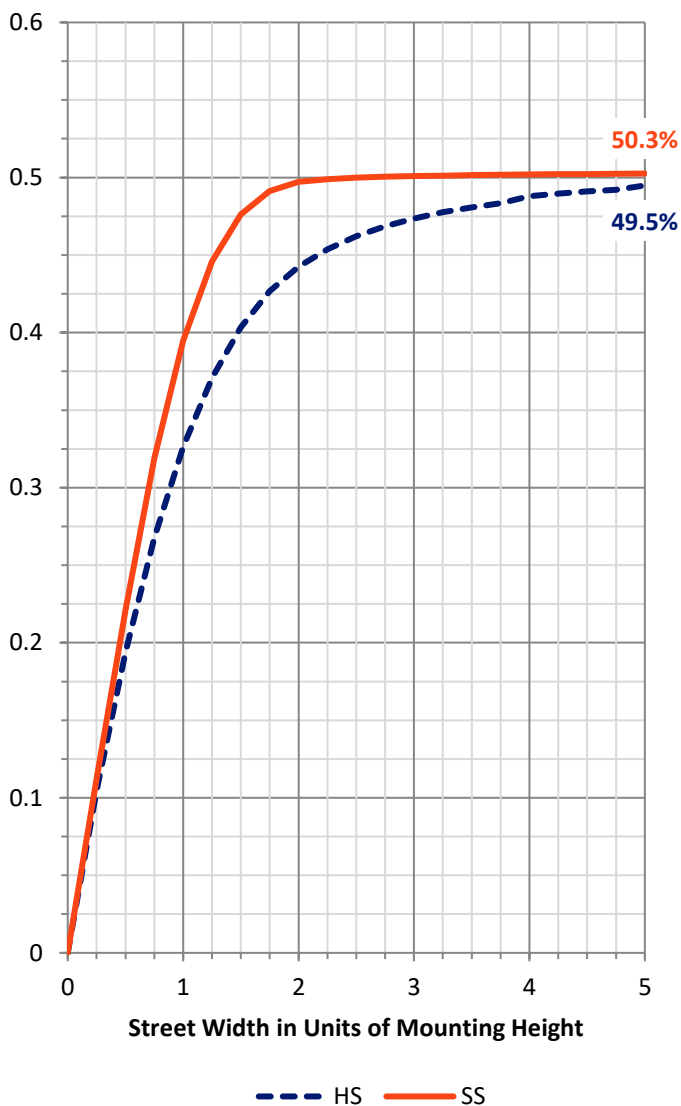
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4700.3	0.0	4700.3
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	4746.7	0.0	4746.7
	% Fixture	50.2	0.0	50.2
Total	Lumens	9447.0	0.0	9447.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	2.8
10°-20°	788.8	8.4
20°-30°	1265.6	13.4
30°-40°	1656.3	17.5
40°-50°	1887.3	20.0
50°-60°	1797.2	19.0
60°-70°	1166.7	12.3
70°-80°	517.1	5.5
80°-90°	100.3	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9447.0	100.0
0°-180°	9447.0	100.0

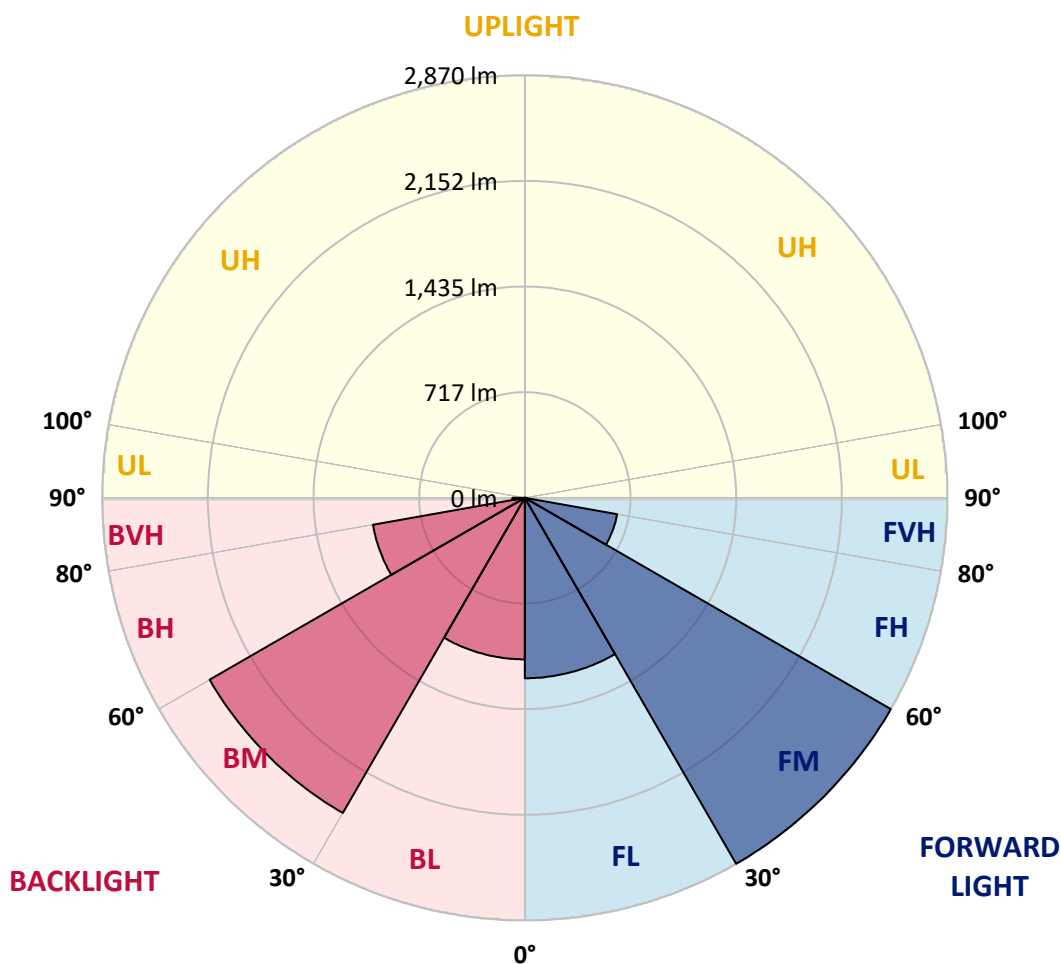


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.2	13.0			
FM (30°-60°)	2869.7	30.4			
FH (60°-80°)	636.5	6.7			G0/660
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	1097.0	11.6	B3/2500		
BM (30°-60°)	2471.1	26.2	B2/2500		
BH (60°-80°)	1047.3	11.1	B3/2500		G3/2500
BVH (80°-90°)	84.9	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
1°	2799.9	2798.3	2799.3	2792.5	2787.3	2785.1	2782.7	2777.5	2772.8	2769.4	2766.7
2°	2823.8	2819.3	2814.3	2806.4	2796.9	2787.7	2780.2	2770.6	2762.8	2758.9	2753.9
3°	2842.6	2840.4	2831.4	2819.0	2806.2	2788.4	2777.0	2763.1	2752.0	2744.5	2740.7
4°	2864.0	2857.8	2848.0	2832.3	2810.9	2789.1	2771.5	2755.0	2742.3	2741.4	2752.3
5°	2881.7	2875.9	2862.4	2843.7	2816.7	2790.2	2768.2	2746.8	2735.1	2754.7	2788.3
6°	2897.1	2889.8	2876.3	2853.6	2822.4	2787.0	2756.5	2733.5	2737.8	2787.3	2819.0
7°	2912.1	2902.5	2883.9	2860.1	2824.8	2786.3	2750.7	2725.4	2754.1	2813.0	2823.1
8°	2925.0	2915.6	2896.3	2865.2	2828.7	2784.2	2742.4	2718.5	2775.6	2815.7	2787.1
9°	2940.9	2930.4	2903.9	2874.2	2827.8	2779.0	2731.8	2712.0	2795.7	2794.0	2745.2
10°	2956.2	2941.9	2916.8	2878.2	2830.2	2771.4	2721.5	2715.5	2794.8	2748.7	2726.0
11°	2974.0	2960.2	2924.9	2882.4	2826.7	2767.4	2711.7	2723.6	2782.8	2716.3	2712.1
12°	2992.9	2977.2	2936.9	2889.4	2827.3	2761.0	2695.9	2731.9	2744.1	2699.9	2702.0
13°	3009.6	2992.6	2949.7	2891.9	2826.3	2752.1	2681.7	2737.6	2706.5	2685.2	2694.9
14°	3031.2	3011.1	2963.1	2897.4	2824.3	2742.8	2668.4	2741.1	2677.2	2672.8	2690.2
15°	3053.0	3031.6	2975.8	2903.4	2819.0	2731.6	2652.9	2729.8	2655.7	2662.4	2678.0
16°	3070.9	3049.0	2993.1	2908.1	2819.6	2724.7	2637.9	2710.0	2639.2	2651.1	2670.4
17°	3089.3	3067.7	3004.9	2917.3	2818.3	2715.1	2623.4	2678.8	2619.8	2639.2	2663.8
18°	3111.9	3082.9	3017.9	2924.5	2816.5	2704.4	2610.8	2636.0	2605.1	2624.4	2657.1
19°	3132.3	3103.0	3032.4	2931.9	2812.0	2691.2	2597.4	2597.3	2589.7	2613.5	2646.4
20°	3150.8	3117.3	3042.4	2936.4	2811.9	2681.7	2587.5	2564.4	2570.9	2600.0	2635.7
21°	3172.0	3136.6	3057.5	2940.3	2804.5	2671.9	2582.2	2539.4	2549.5	2585.4	2629.9
22°	3193.6	3152.7	3065.8	2944.8	2797.3	2660.3	2576.3	2514.8	2528.2	2572.6	2623.4
23°	3215.7	3174.6	3076.6	2945.7	2789.1	2643.7	2569.9	2490.0	2510.3	2559.5	2612.7
24°	3237.0	3193.0	3088.2	2948.4	2782.3	2629.2	2560.2	2467.8	2490.2	2547.4	2606.5
25°	3254.6	3210.3	3100.6	2946.7	2771.9	2605.8	2547.6	2445.6	2470.4	2534.3	2603.8
26°	3271.5	3227.9	3112.3	2945.4	2758.0	2583.5	2526.4	2415.2	2446.2	2518.0	2598.8
27°	3292.6	3244.0	3128.4	2947.8	2747.1	2562.9	2500.8	2389.6	2424.6	2505.0	2592.5
28°	3308.9	3258.8	3136.2	2942.8	2731.6	2537.1	2465.6	2359.4	2403.5	2493.9	2590.8
29°	3329.0	3277.4	3148.0	2943.9	2714.1	2512.6	2428.9	2329.9	2384.0	2479.6	2589.5
30°	3339.6	3294.4	3154.7	2941.2	2698.9	2481.9	2383.1	2299.5	2361.3	2467.2	2584.5
31°	3354.9	3305.4	3167.8	2944.2	2681.1	2452.2	2340.3	2269.2	2336.5	2456.2	2584.1
32°	3364.2	3318.6	3174.7	2942.5	2661.3	2422.2	2298.0	2235.7	2315.5	2444.4	2581.3
33°	3374.4	3325.4	3185.8	2940.7	2642.5	2388.4	2256.3	2203.0	2289.9	2433.4	2583.0
34°	3378.0	3333.0	3194.0	2940.4	2624.0	2354.0	2219.4	2169.1	2268.2	2422.8	2582.3
35°	3375.9	3334.6	3202.4	2939.0	2605.6	2320.9	2179.3	2135.3	2241.1	2410.0	2579.8
36°	3365.2	3333.2	3202.3	2933.8	2586.5	2283.3	2138.7	2101.5	2217.7	2402.4	2568.3
37°	3353.7	3322.5	3207.4	2935.1	2567.9	2246.0	2097.0	2066.7	2193.7	2388.2	2567.3
38°	3333.9	3308.3	3203.8	2937.2	2552.6	2211.0	2055.4	2032.3	2171.4	2373.0	2568.1
39°	3310.2	3291.1	3195.1	2936.5	2536.0	2173.6	2012.3	2000.1	2147.6	2353.8	2573.7
40°	3284.3	3267.2	3187.6	2937.9	2520.6	2135.2	1969.0	1967.8	2124.2	2340.5	2579.9
41°	3255.5	3240.3	3171.8	2937.9	2506.3	2100.2	1925.7	1935.6	2099.5	2336.2	2577.5
42°	3215.7	3207.3	3153.1	2936.2	2491.9	2063.6	1883.3	1898.4	2071.7	2328.8	2576.4
43°	3164.8	3169.1	3127.5	2934.8	2480.2	2029.1	1835.8	1861.3	2038.9	2313.7	2576.1
44°	3110.4	3121.5	3098.2	2932.0	2468.7	1996.4	1786.9	1824.6	2015.7	2296.9	2577.8



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3050.9	3070.8	3067.4	2924.1	2458.5	1964.9	1738.7	1784.8	1992.5	2279.4	2577.7
46°	2987.0	3011.6	3027.7	2914.3	2449.3	1935.0	1692.6	1745.9	1969.3	2274.0	2571.5
47°	2910.0	2946.5	2987.9	2898.5	2443.4	1903.3	1641.1	1706.7	1943.7	2266.0	2557.5
48°	2826.7	2873.3	2935.0	2883.1	2434.3	1867.5	1592.3	1664.1	1913.3	2254.6	2541.1
49°	2737.6	2790.2	2877.3	2856.4	2428.0	1829.8	1540.6	1617.8	1883.4	2240.1	2522.6
50°	2640.4	2695.7	2814.1	2828.7	2423.7	1788.9	1490.3	1567.4	1860.0	2224.1	2501.2
51°	2534.1	2601.7	2742.4	2798.9	2418.5	1747.0	1438.7	1518.6	1834.7	2203.9	2478.0
52°	2421.7	2493.6	2663.3	2765.6	2416.1	1703.1	1385.2	1476.9	1803.7	2185.9	2456.0
53°	2300.3	2381.0	2572.5	2722.1	2410.1	1651.9	1334.2	1437.4	1770.2	2169.2	2430.7
54°	2174.6	2259.6	2469.6	2671.6	2402.7	1607.7	1283.7	1389.0	1735.4	2149.4	2403.4
55°	2041.2	2130.7	2360.3	2611.8	2397.2	1562.3	1228.8	1339.4	1697.1	2126.9	2373.7
56°	1898.2	1994.4	2243.0	2547.3	2387.5	1518.1	1174.9	1293.8	1665.2	2100.9	2341.2
57°	1736.4	1846.7	2113.8	2473.1	2373.0	1475.5	1121.6	1248.5	1628.6	2074.2	2305.5
58°	1542.1	1685.5	1977.3	2383.0	2350.0	1433.1	1066.1	1201.3	1593.7	2047.0	2264.5
59°	1323.5	1494.4	1830.4	2282.4	2324.3	1391.2	1011.0	1150.1	1555.8	2019.6	2215.9
60°	1097.1	1274.4	1670.9	2165.6	2290.0	1349.3	953.8	1097.8	1517.0	1992.1	2162.0
61°	883.9	1047.6	1495.1	2034.7	2253.0	1310.5	899.3	1045.5	1477.4	1964.5	2096.9
62°	670.9	835.0	1284.0	1880.6	2206.9	1276.8	848.3	996.4	1440.2	1926.8	1999.1
63°	457.8	622.5	1064.0	1715.0	2152.7	1246.6	793.3	944.1	1405.4	1885.7	1901.5
64°	296.8	410.1	844.5	1542.7	2087.9	1221.9	739.3	895.4	1368.4	1839.1	1801.7
65°	195.1	256.1	625.0	1340.9	2012.5	1205.0	687.7	847.3	1330.5	1791.4	1632.5
66°	150.2	168.7	405.5	1116.5	1922.2	1197.2	636.6	799.4	1289.8	1727.5	1509.5
67°	136.2	132.4	247.9	886.1	1811.1	1192.9	587.9	751.4	1249.8	1624.7	1437.4
68°	126.6	120.4	156.9	655.6	1673.7	1190.7	538.7	705.1	1202.6	1497.4	1377.1
69°	117.2	110.8	122.8	425.1	1519.6	1186.9	491.3	659.9	1156.1	1398.6	1317.8
70°	108.0	101.8	110.5	247.7	1323.4	1186.0	445.3	616.6	1111.6	1336.4	1260.8
71°	99.3	94.1	101.5	146.2	1064.5	1192.2	400.7	572.8	1061.3	1276.1	1208.3
72°	92.4	86.4	92.5	106.0	788.1	1193.4	360.4	529.9	981.0	1210.0	1153.1
73°	85.6	78.7	83.4	94.1	511.4	1165.4	320.4	485.7	905.5	1141.4	1094.6
74°	78.7	72.0	74.4	82.6	234.7	1084.1	282.1	442.8	855.6	1076.7	1029.0
75°	71.6	64.7	65.9	71.2	130.2	980.1	246.1	402.6	813.7	1015.6	960.2
76°	65.7	58.1	56.2	63.4	109.7	868.4	210.1	362.5	767.7	956.1	877.4
77°	61.2	53.0	48.9	57.4	90.5	756.6	174.2	324.8	722.0	900.6	782.1
78°	58.3	48.7	42.8	50.5	71.2	644.8	144.2	279.2	679.8	847.2	695.8
79°	55.9	46.0	38.4	41.9	64.6	491.9	117.2	243.5	635.0	795.9	616.0
80°	52.8	43.7	35.0	34.1	64.5	371.7	93.0	207.8	591.0	729.5	554.1
81°	49.3	40.8	32.3	28.9	60.0	259.9	72.7	172.1	549.1	659.9	490.4
82°	45.0	37.6	29.8	25.3	51.3	169.1	55.2	144.5	503.6	588.9	349.5
83°	37.2	32.7	27.2	22.1	42.5	99.6	40.0	118.4	458.5	534.8	208.7
84°	29.4	26.7	23.0	19.2	29.2	74.4	30.6	92.9	396.2	485.8	70.4
85°	21.1	19.8	17.3	16.3	17.2	49.4	21.2	70.2	319.1	388.1	40.5
86°	14.8	15.0	12.6	12.1	11.1	24.3	11.9	49.0	255.3	290.5	11.1
87°	10.1	10.2	8.6	8.3	7.5	13.3	6.8	33.2	191.6	192.8	5.5
88°	5.4	5.5	4.7	4.6	3.9	8.9	3.1	17.3	127.9	95.2	1.9
89°	0.7	0.8	0.7	0.8	0.8	4.6	1.0	1.9	64.1	0.7	0.4



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449898

CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
1°	2764.0	2763.8	2766.0	2764.1	2768.3	2771.5	2775.1	2783.1	2787.5	2790.4	2794.1
2°	2747.5	2749.0	2748.1	2750.0	2759.5	2764.2	2771.1	2780.7	2792.3	2798.7	2807.8
3°	2739.6	2742.8	2738.3	2738.9	2742.9	2755.0	2762.6	2776.8	2791.5	2806.4	2823.5
4°	2765.5	2764.9	2756.2	2741.8	2733.0	2742.8	2755.3	2775.1	2797.5	2814.8	2835.6
5°	2807.1	2809.2	2796.2	2772.8	2737.8	2731.3	2747.5	2769.2	2796.2	2824.0	2847.9
6°	2826.8	2827.3	2826.6	2802.7	2760.5	2724.6	2737.8	2762.6	2795.7	2830.4	2857.2
7°	2810.9	2805.5	2813.7	2816.6	2788.1	2727.2	2727.7	2757.5	2796.2	2835.0	2867.1
8°	2761.6	2756.4	2765.7	2798.4	2804.5	2737.9	2716.4	2751.0	2796.8	2838.5	2873.9
9°	2734.6	2734.6	2734.9	2750.5	2799.8	2757.5	2702.6	2740.0	2790.6	2839.6	2881.0
10°	2722.7	2721.8	2721.1	2720.6	2766.0	2771.0	2694.1	2731.7	2788.4	2842.5	2888.9
11°	2712.5	2713.5	2710.7	2706.4	2726.1	2773.2	2686.2	2721.7	2780.5	2841.1	2892.2
12°	2710.5	2711.1	2703.7	2691.7	2697.6	2761.0	2681.7	2707.0	2776.8	2841.0	2899.8
13°	2704.4	2707.1	2700.3	2683.4	2681.0	2730.9	2684.7	2693.5	2770.0	2840.7	2906.9
14°	2697.8	2700.1	2689.1	2676.7	2663.8	2691.8	2691.5	2682.4	2764.2	2841.0	2913.9
15°	2691.2	2693.3	2682.7	2667.6	2648.1	2658.0	2690.8	2670.8	2755.5	2843.7	2923.8
16°	2686.4	2691.1	2679.1	2654.6	2636.8	2632.0	2693.1	2651.8	2747.5	2845.9	2931.7
17°	2681.9	2685.8	2673.1	2646.6	2620.8	2613.6	2682.2	2637.5	2738.3	2844.9	2941.7
18°	2674.5	2678.5	2663.4	2635.6	2604.7	2592.0	2663.4	2619.8	2733.7	2844.9	2952.1
19°	2666.9	2675.7	2658.7	2628.0	2587.3	2572.4	2637.1	2605.9	2725.1	2843.2	2961.2
20°	2665.4	2673.6	2651.5	2615.1	2576.3	2553.4	2601.7	2585.4	2715.7	2842.1	2963.5
21°	2663.1	2670.8	2647.6	2604.1	2561.9	2534.7	2561.9	2569.2	2708.8	2842.5	2970.7
22°	2660.3	2670.2	2644.9	2595.2	2544.7	2511.7	2522.4	2551.5	2695.9	2836.6	2975.4
23°	2660.6	2672.9	2642.0	2588.3	2527.8	2484.0	2488.9	2536.6	2683.2	2832.7	2981.4
24°	2658.2	2672.9	2641.0	2575.7	2511.1	2460.9	2459.3	2521.2	2665.6	2824.6	2986.3
25°	2656.8	2673.9	2639.9	2570.5	2497.2	2440.9	2430.1	2512.4	2646.9	2816.0	2988.4
26°	2660.3	2675.7	2636.0	2562.3	2481.5	2415.1	2402.2	2504.0	2629.2	2806.4	2991.9
27°	2659.2	2677.6	2637.1	2557.3	2465.7	2388.6	2372.6	2491.8	2605.7	2799.6	2994.4
28°	2661.4	2682.9	2637.1	2549.0	2448.2	2361.5	2346.8	2479.7	2581.5	2784.5	2996.2
29°	2667.3	2688.0	2638.2	2539.8	2433.7	2339.2	2318.1	2462.7	2556.2	2773.8	3000.0
30°	2668.5	2693.8	2642.4	2533.9	2417.3	2311.8	2285.1	2435.4	2528.2	2758.7	3005.5
31°	2679.6	2702.9	2644.0	2531.7	2401.9	2287.8	2250.4	2404.6	2498.6	2746.2	3008.1
32°	2683.8	2710.5	2651.5	2524.7	2384.7	2259.8	2218.7	2366.4	2471.8	2734.7	3006.0
33°	2686.2	2712.5	2652.5	2523.0	2364.6	2233.2	2181.4	2320.1	2441.4	2718.5	3012.0
34°	2685.9	2710.8	2650.7	2520.1	2351.9	2206.2	2149.1	2270.7	2411.1	2704.6	3009.2
35°	2686.4	2720.7	2648.0	2515.6	2333.0	2180.6	2113.7	2220.4	2379.5	2690.4	3013.4
36°	2697.1	2733.8	2650.2	2506.7	2317.6	2153.1	2076.6	2169.2	2348.1	2682.1	3015.5
37°	2710.9	2750.6	2661.1	2494.5	2302.4	2125.5	2038.2	2125.5	2316.8	2666.6	3019.9
38°	2720.8	2761.1	2672.5	2491.8	2286.1	2096.6	2002.5	2079.2	2287.0	2659.0	3020.0
39°	2725.2	2762.8	2679.9	2490.0	2265.7	2066.1	1966.8	2035.4	2255.8	2647.7	3021.1
40°	2727.4	2765.4	2678.5	2485.8	2242.9	2038.3	1931.1	1989.3	2222.4	2637.3	3018.6
41°	2731.3	2769.8	2677.5	2481.7	2225.2	2011.3	1887.1	1946.5	2189.5	2625.4	3021.8
42°	2735.1	2775.1	2686.3	2475.3	2209.5	1984.3	1844.3	1901.9	2156.8	2619.2	3015.2
43°	2739.1	2774.4	2688.0	2475.0	2197.6	1957.2	1799.3	1854.7	2125.5	2615.5	3009.9
44°	2733.3	2765.2	2687.6	2474.9	2184.4	1922.0	1756.1	1807.4	2090.6	2613.6	2997.9



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CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2722.1	2753.2	2678.6	2472.1	2161.0	1883.8	1712.6	1759.6	2055.7	2611.2	2982.9
46°	2705.5	2735.9	2663.2	2468.0	2140.7	1846.4	1669.3	1711.7	2024.0	2606.6	2963.0
47°	2688.5	2720.0	2644.9	2459.3	2122.4	1810.3	1626.5	1660.9	1990.2	2601.8	2938.3
48°	2669.6	2696.3	2626.9	2447.8	2106.2	1782.1	1582.5	1612.7	1959.4	2599.3	2907.8
49°	2647.2	2674.0	2604.6	2432.1	2086.4	1747.7	1538.0	1559.9	1927.3	2595.4	2878.5
50°	2623.1	2649.0	2584.5	2414.4	2065.0	1712.1	1492.0	1507.6	1894.0	2589.8	2842.6
51°	2596.4	2620.2	2560.7	2389.4	2040.4	1677.4	1445.3	1457.5	1863.9	2583.5	2801.3
52°	2570.0	2590.1	2533.1	2368.4	2017.9	1643.6	1394.2	1405.5	1832.6	2576.3	2747.6
53°	2534.3	2548.5	2503.1	2342.7	2000.3	1613.2	1342.4	1353.8	1804.3	2563.8	2690.8
54°	2496.2	2506.1	2471.8	2317.7	1982.8	1577.0	1290.5	1299.9	1779.6	2545.3	2622.9
55°	2452.6	2458.2	2430.4	2289.4	1965.2	1538.8	1244.2	1245.2	1756.2	2523.5	2547.9
56°	2402.8	2401.9	2385.5	2261.7	1941.7	1494.6	1195.1	1189.7	1738.0	2490.4	2464.5
57°	2345.9	2342.4	2332.9	2227.4	1915.9	1452.1	1142.9	1134.1	1725.8	2458.4	2364.4
58°	2282.3	2271.2	2274.1	2195.6	1891.6	1407.7	1090.7	1078.4	1710.8	2419.1	2257.3
59°	2214.0	2197.7	2210.7	2156.3	1868.5	1366.2	1040.3	1023.9	1698.6	2372.9	2132.2
60°	2138.9	2084.1	2140.9	2115.6	1837.8	1323.9	990.3	970.8	1683.4	2321.0	1995.8
61°	2003.1	1970.5	2021.7	2065.2	1805.8	1283.3	940.7	917.9	1668.7	2257.4	1846.6
62°	1867.5	1856.5	1902.6	1999.2	1772.1	1239.9	889.2	865.0	1662.5	2187.0	1682.9
63°	1731.8	1679.7	1783.2	1933.3	1730.4	1194.1	835.4	810.5	1655.8	2097.9	1504.7
64°	1593.6	1575.7	1620.0	1866.0	1689.9	1152.2	781.9	755.7	1652.6	1998.3	1307.8
65°	1519.7	1515.2	1523.1	1735.7	1643.2	1108.7	728.7	704.7	1645.5	1879.2	1085.3
66°	1464.0	1458.7	1458.7	1578.1	1595.7	1063.3	677.2	654.5	1641.3	1738.9	860.8
67°	1408.1	1395.7	1406.6	1467.5	1540.8	1018.1	627.0	604.3	1638.3	1579.8	636.2
68°	1343.2	1322.6	1351.5	1395.0	1472.6	971.7	577.4	550.7	1619.9	1383.6	411.7
69°	1272.7	1241.1	1287.8	1324.9	1369.4	923.4	529.0	498.8	1579.8	1155.7	247.5
70°	1199.0	1160.0	1224.2	1259.2	1275.7	877.3	482.3	448.7	1509.8	892.2	151.0
71°	1115.5	1068.2	1150.2	1198.3	1219.2	830.6	439.4	399.1	1408.2	627.6	112.5
72°	1030.6	985.0	1073.1	1147.0	1171.4	785.6	399.4	353.2	1313.1	363.1	100.2
73°	949.5	907.2	990.2	1098.9	1115.0	736.6	358.1	309.4	1235.7	198.5	90.5
74°	864.2	820.7	904.8	1049.6	1059.8	665.7	320.5	270.4	1112.0	117.8	80.9
75°	780.0	732.5	818.5	998.3	1003.9	607.7	284.4	232.3	969.4	100.5	71.3
76°	689.8	633.1	735.3	941.4	948.4	564.9	252.9	197.7	770.9	84.3	61.1
77°	597.9	538.2	649.2	869.7	890.9	523.8	221.5	168.9	570.5	68.2	52.4
78°	514.2	447.0	571.6	782.5	829.1	480.8	190.2	144.9	370.1	62.3	44.3
79°	423.8	336.4	490.8	689.0	769.5	440.5	163.9	124.5	206.8	59.4	36.9
80°	306.1	225.8	403.6	603.6	706.2	402.7	134.5	103.7	111.8	54.3	31.4
81°	188.4	116.1	265.7	543.5	637.4	363.9	109.2	84.5	90.8	44.3	27.8
82°	73.2	38.0	128.3	495.9	572.9	325.5	88.9	65.4	70.8	35.1	24.8
83°	53.5	30.0	90.5	348.2	501.1	285.9	69.7	46.2	50.8	25.4	22.1
84°	33.9	21.9	52.7	200.6	446.1	242.5	53.2	33.1	49.1	17.8	19.5
85°	14.5	13.9	15.2	53.1	394.0	199.0	38.8	23.0	42.7	13.8	16.1
86°	8.8	8.3	9.6	29.5	246.5	155.7	28.0	14.9	31.6	10.9	11.1
87°	4.2	4.1	4.4	5.8	100.8	116.1	17.3	10.1	18.7	7.3	6.9
88°	1.6	1.6	1.7	1.7	49.9	77.3	6.7	5.4	12.5	3.6	2.7
89°	0.3	0.3	0.3	0.4	0.7	38.4	0.9	0.7	6.4	0.7	0.8



REPORT NUMBER: P1449898
 CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449898
 CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449898
CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449898
 CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2782.2	2782.2	2782.2
1°	2798.5	2800.5	2799.9
2°	2816.0	2818.7	2823.8
3°	2831.1	2839.1	2842.6
4°	2850.1	2858.1	2864.0
5°	2864.7	2875.3	2881.7
6°	2877.5	2891.4	2897.1
7°	2889.9	2908.7	2912.1
8°	2902.4	2922.3	2925.0
9°	2913.1	2933.6	2940.9
10°	2923.0	2946.2	2956.2
11°	2934.9	2963.6	2974.0
12°	2947.6	2983.6	2992.9
13°	2963.7	3000.7	3009.6
14°	2977.9	3022.4	3031.2
15°	2994.4	3038.7	3053.0
16°	3009.7	3058.3	3070.9
17°	3022.5	3073.0	3089.3
18°	3036.7	3094.2	3111.9
19°	3051.2	3113.0	3132.3
20°	3066.2	3130.9	3150.8
21°	3081.9	3148.0	3172.0
22°	3093.9	3171.1	3193.6
23°	3105.3	3190.5	3215.7
24°	3122.7	3209.7	3237.0
25°	3134.7	3232.0	3254.6
26°	3150.2	3247.7	3271.5
27°	3164.5	3261.5	3292.6
28°	3176.7	3281.1	3308.9
29°	3184.4	3299.7	3329.0
30°	3201.1	3314.2	3339.6
31°	3211.9	3326.6	3354.9
32°	3222.1	3337.4	3364.2
33°	3231.9	3344.8	3374.4
34°	3234.5	3348.5	3378.0
35°	3243.7	3349.3	3375.9
36°	3247.1	3344.8	3365.2
37°	3242.4	3335.0	3353.7
38°	3239.8	3321.0	3333.9
39°	3229.8	3297.4	3310.2
40°	3214.6	3271.6	3284.3
41°	3192.5	3245.1	3255.5
42°	3169.4	3207.5	3215.7
43°	3140.2	3169.0	3164.8
44°	3107.4	3119.3	3110.4



REPORT NUMBER: P1449898
CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	3069.9	3060.3	3050.9
46°	3025.6	2997.8	2987.0
47°	2970.2	2930.1	2910.0
48°	2913.1	2851.0	2826.7
49°	2844.7	2761.0	2737.6
50°	2770.0	2668.4	2640.4
51°	2687.3	2570.4	2534.1
52°	2595.8	2460.3	2421.7
53°	2501.0	2341.3	2300.3
54°	2390.5	2219.1	2174.6
55°	2272.4	2088.6	2041.2
56°	2145.7	1945.6	1898.2
57°	2010.8	1795.5	1736.4
58°	1864.4	1620.2	1542.1
59°	1711.2	1413.9	1323.5
60°	1534.6	1190.6	1097.1
61°	1334.9	955.9	883.9
62°	1108.1	741.9	670.9
63°	889.4	528.1	457.8
64°	670.7	350.4	296.8
65°	452.0	220.6	195.1
66°	285.1	155.8	150.2
67°	176.5	132.4	136.2
68°	129.8	122.0	126.6
69°	114.6	112.9	117.2
70°	104.8	104.0	108.0
71°	96.5	96.2	99.3
72°	87.9	88.5	92.4
73°	79.2	80.7	85.6
74°	72.4	74.0	78.7
75°	64.4	66.9	71.6
76°	55.8	60.5	65.7
77°	48.5	55.6	61.2
78°	43.4	52.0	58.3
79°	39.4	49.3	55.9
80°	36.4	46.9	52.8
81°	33.9	43.7	49.3
82°	31.2	40.1	45.0
83°	28.1	34.3	37.2
84°	22.6	27.8	29.4
85°	17.7	20.6	21.1
86°	11.5	14.9	14.8
87°	7.9	10.1	10.1
88°	4.3	5.4	5.4
89°	0.8	0.7	0.7



REPORT NUMBER: P1449898
CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1449898
CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449898
CATALOG NUMBER: TWC60_T2_60W_5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-5000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

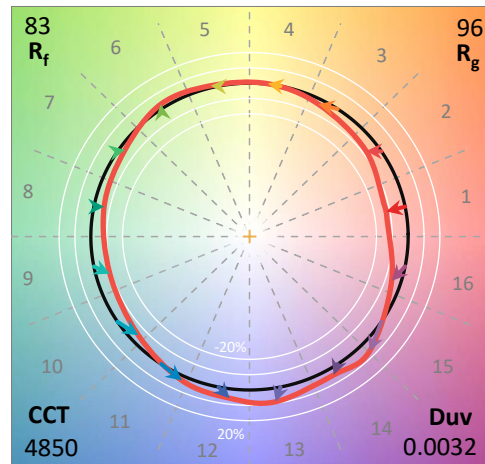
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/16/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-5000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 5000K

Spectral Parameters

CCT (K): 4850
 CIE u': 0.2108
 CIE v': 0.4905
 Duv: 0.0032
 CIE x: 0.3503
 CIE y: 0.3623
 CIE z: 0.2875
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 13.81051
 Rf: 83.1
 Rg: 95.8

CRI (Ra):	82.6		
R1:	80.9	R9:	8.5
R2:	87.6	R10:	69.7
R3:	92.0	R11:	80.6
R4:	81.9	R12:	52.2
R5:	80.4	R13:	82.7
R6:	82.0	R14:	95.7
R7:	88.2	R15:	74.9
R8:	67.7		



Test Conditions

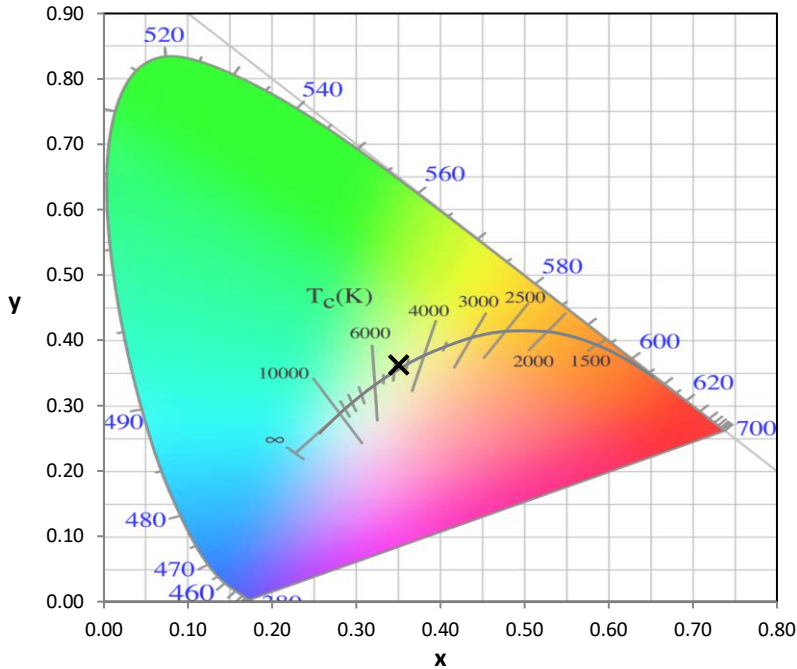
Stabilization Time: 25M
 Operation Time: 1H 25M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

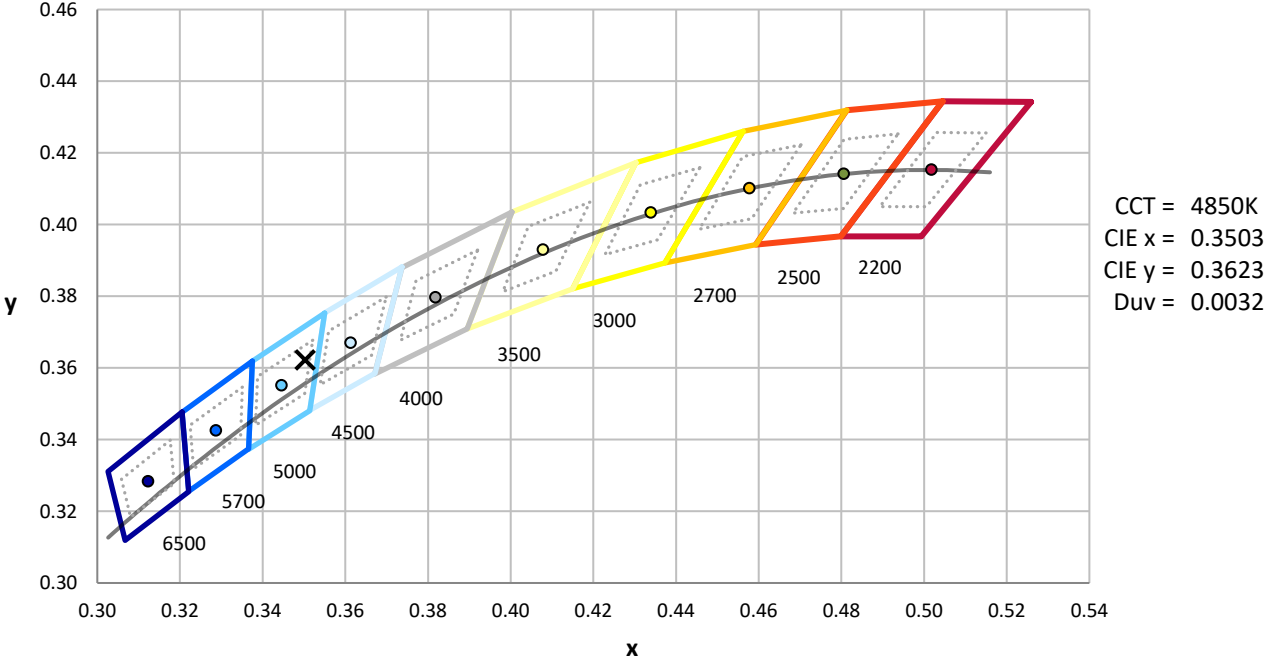
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-3

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

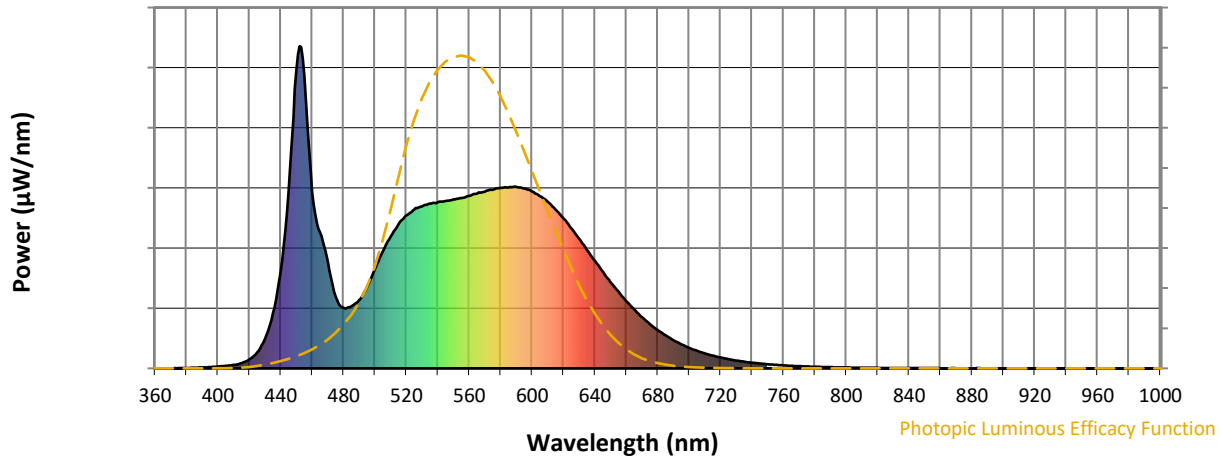


CCT = 4850K
 CIE x = 0.3503
 CIE y = 0.3623
 Duv = 0.0032

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength

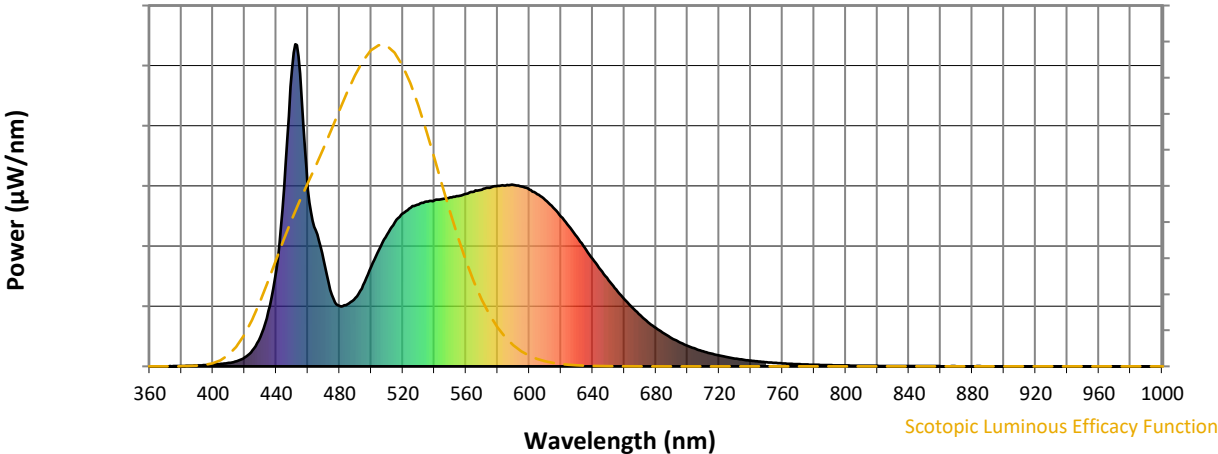


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

REPORT NUMBER: SP1-2601-659-3

Scotopic Flux vs. Wavelength



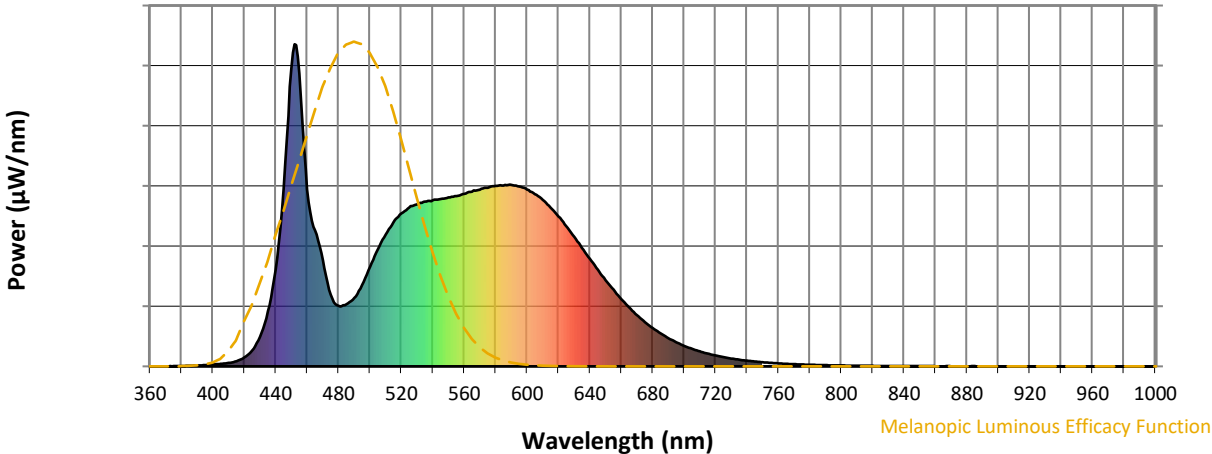
Scotopic Lumens: NR

S/P: 1.9

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

REPORT NUMBER: SP1-2601-659-3

Melanopic Flux vs. Wavelength



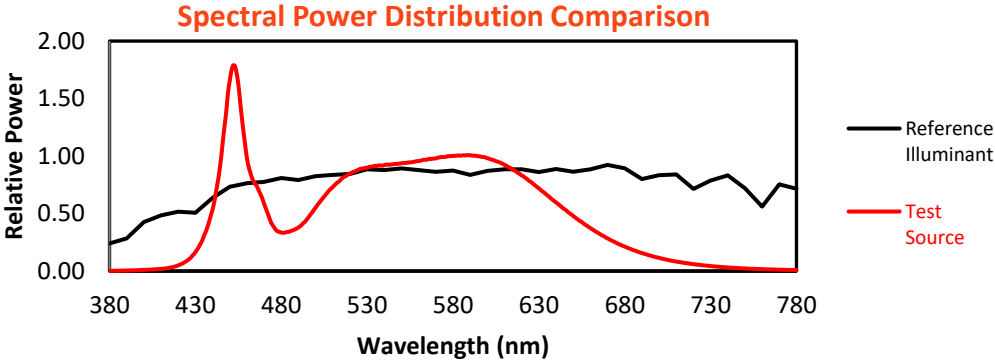
Melanopic Lumens: NR

M/P: 4

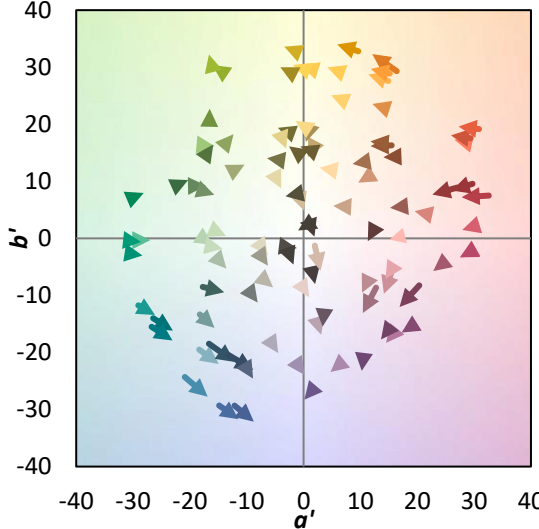
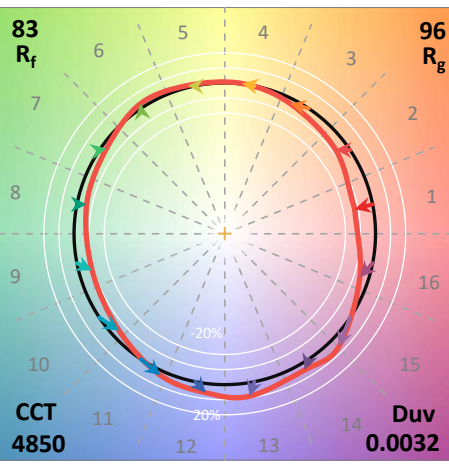
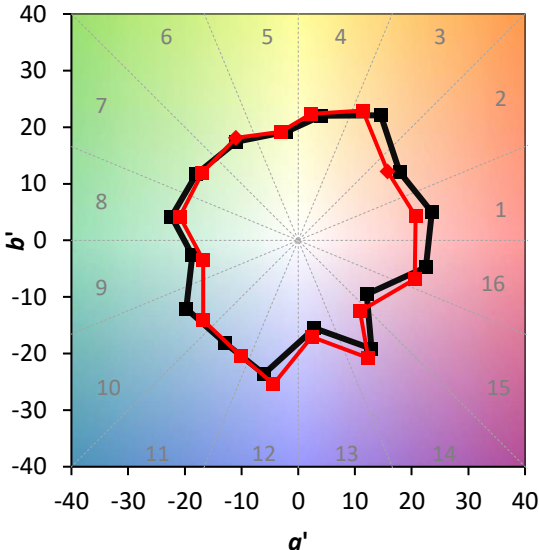
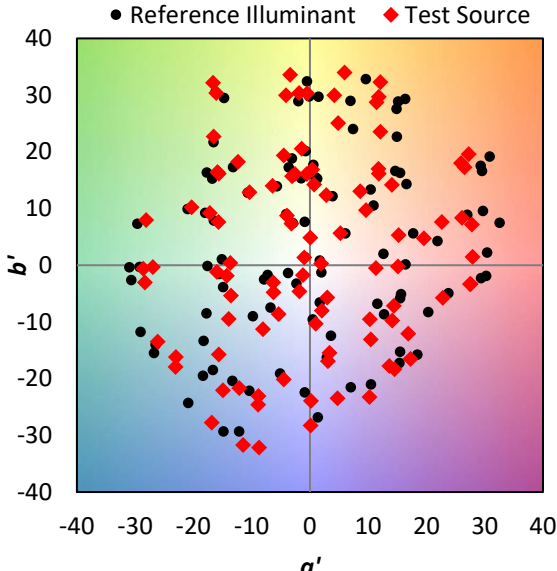
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

Summary

$R_f = 83.1$
 $R_g = 95.8$
 CIE $R_a = 82.6$
 $R_9 = 8.5$

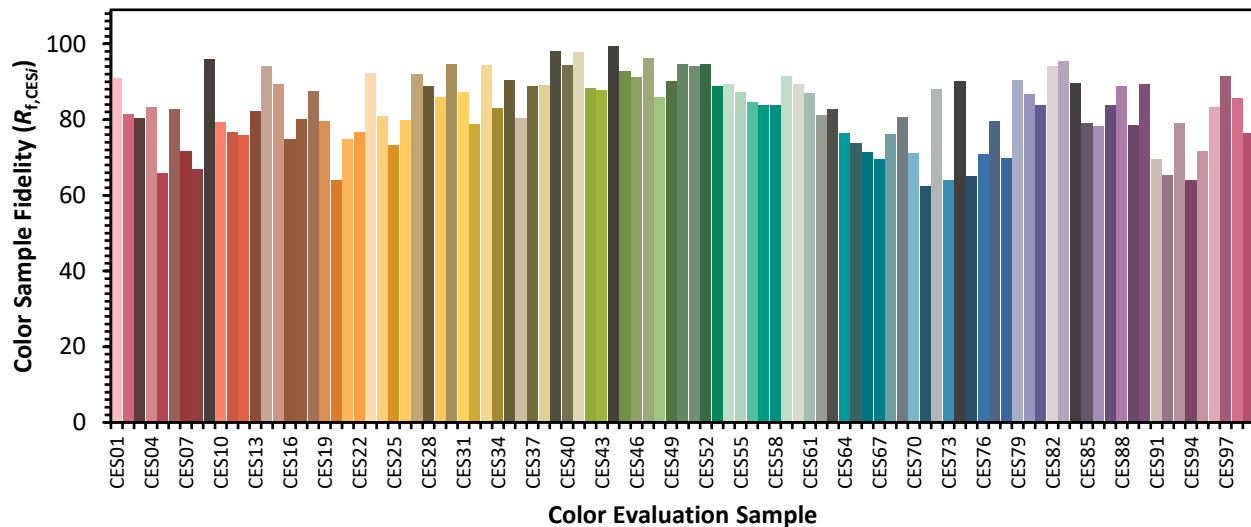


Color Vector Graphics

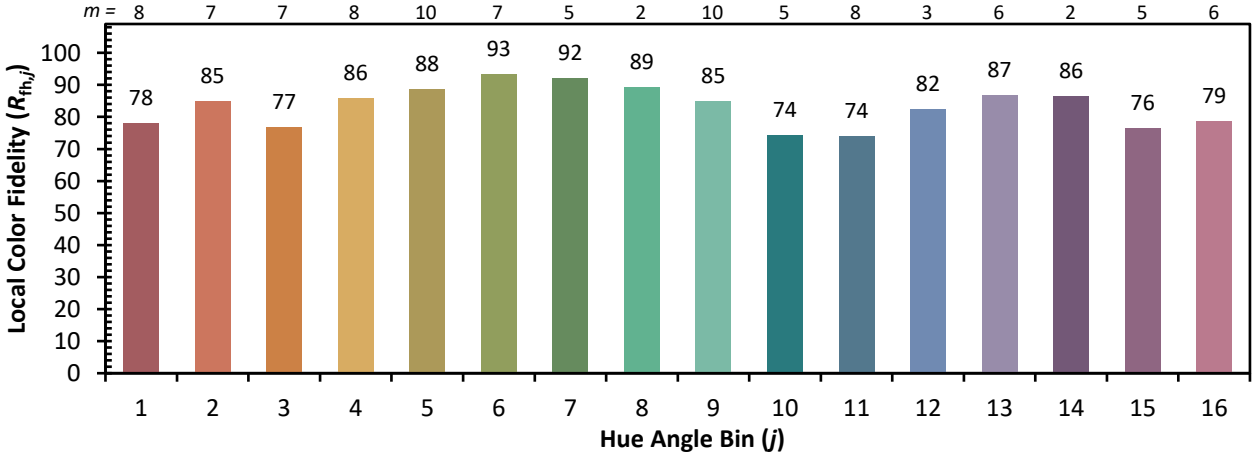
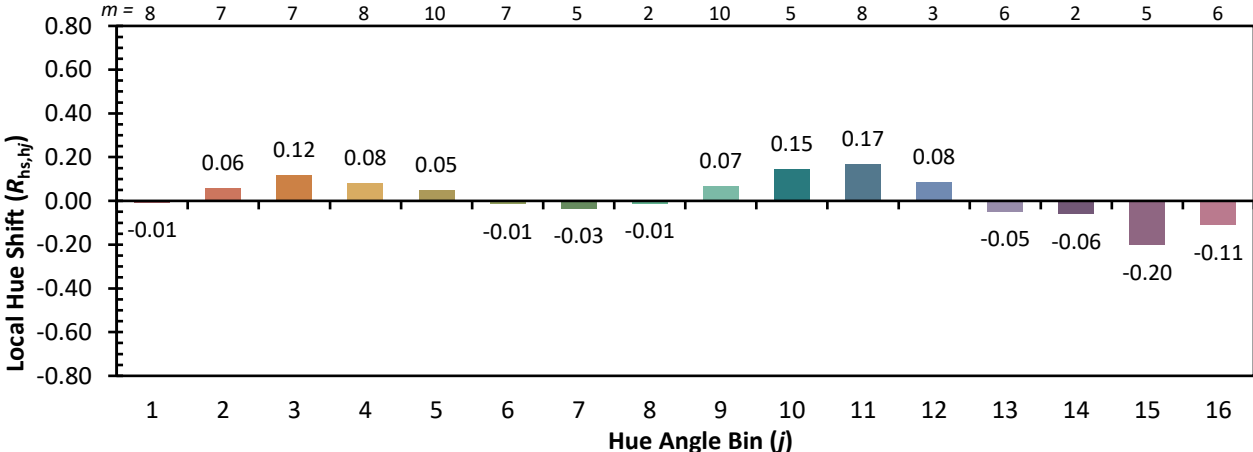
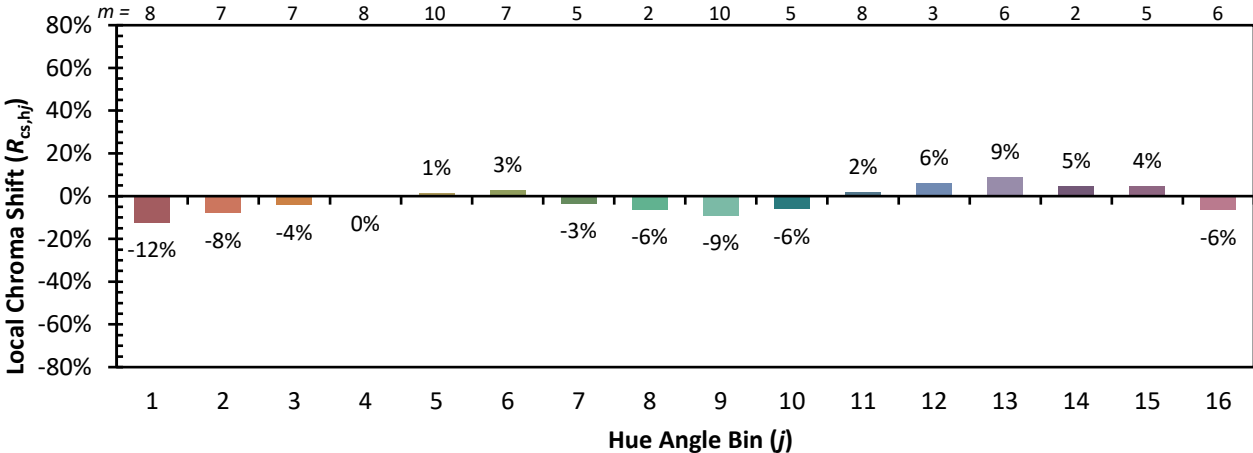


Individual Sample Fidelity Index ($R_{f,i}$)

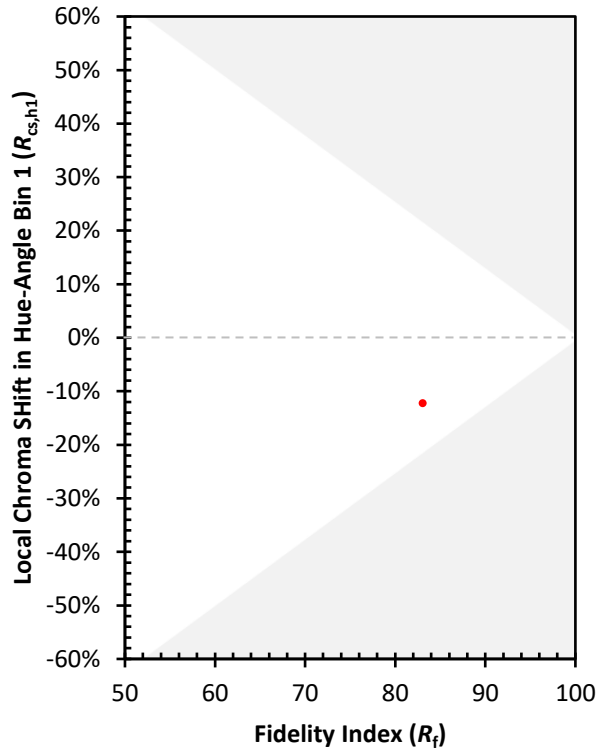
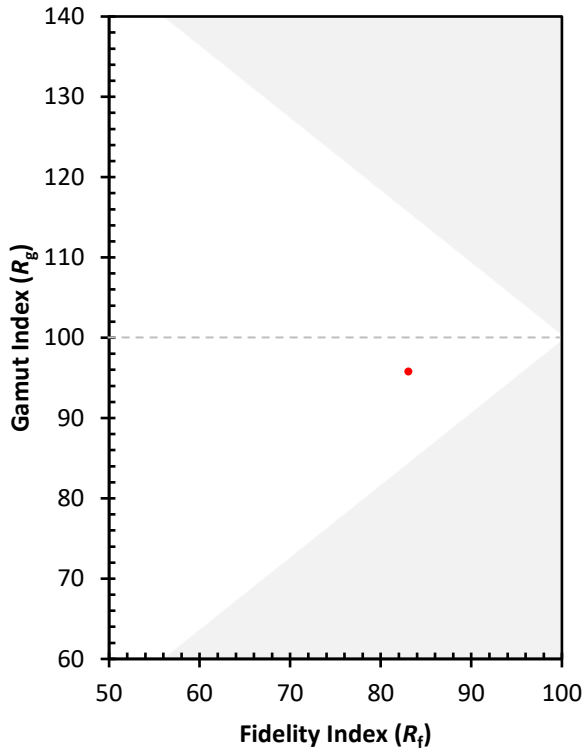
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 94
CES08 = 39	CES33 = 94	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 83	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 90	CES60 = 89	CES85 = 79
CES11 = 56	CES36 = 80	CES61 = 87	CES86 = 78
CES12 = 62	CES37 = 89	CES62 = 81	CES87 = 84
CES13 = 42	CES38 = 89	CES63 = 83	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 79
CES15 = 71	CES40 = 94	CES65 = 74	CES90 = 89
CES16 = 46	CES41 = 98	CES66 = 71	CES91 = 70
CES17 = 49	CES42 = 88	CES67 = 70	CES92 = 65
CES18 = 56	CES43 = 88	CES68 = 76	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 64
CES20 = 64	CES45 = 93	CES70 = 71	CES95 = 72
CES21 = 85	CES46 = 91	CES71 = 62	CES96 = 83
CES22 = 77	CES47 = 96	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 86	CES73 = 64	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 76
CES25 = 71	CES50 = 95	CES75 = 65	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)